

aluminum and steel

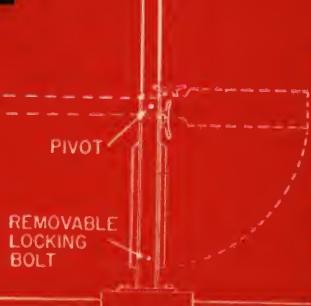
FLAGPOLES

by

BABCOCK
DAVIS
ASSOCIATES, INC.

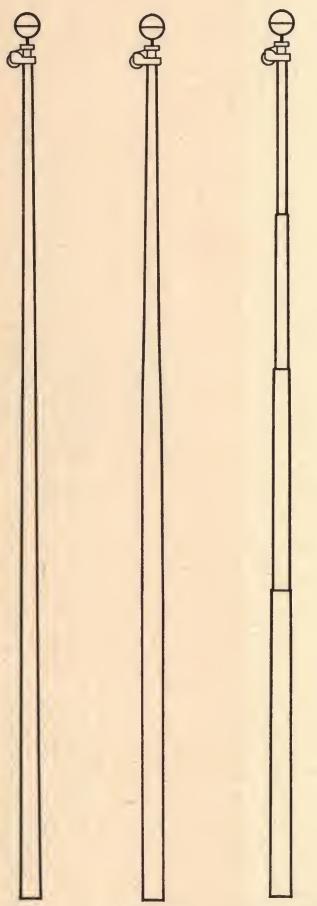


ESTABLISHED IN 1909



steel flagpoles

importance of proper ground setting



conical
tapered
steel and
aluminum
pole genuine
venetian
entasis
steel
pole sectional
steel pole

The proper foundation and setting of ground poles is important to the life of the pole. See detail below for suggested method of installation. For specific cases, write us for large scale detail.

types

■ conical tapered steel pole

Tapered portion has straight taper. No visible joints. Available in all sizes up to 20-inch butt.

■ conical tapered aluminum pole

Suitable up to 70-ft exposed height. 77 ft long.

■ sectional steel pole

Constructed from pipe or steel tubing in sizes graduated to give a graceful taper. Sections are telescoped, shrunk and welded together so that all joints are waterproof.

■ genuine venetian entasis steel tapered pole

Made on a true architectural entasis, curved taper for use where the finest poles are desired. Made of steel, with no visible joints. Available in all sizes up to 20-inch butt.

dimensions (aluminum poles)

exposed height, ft.	20	25	30	35	40	50	60	70	75	80	90	100
total length, ft.	23	28	33	38½	44	55	66	77	82½	88	99	110

conical tapered poles

heavy pattern	4	5	5	5½	6	6½	7½	8½	9½	10½	11½	12½
Out. Diam. of Butt, in	2¼	3¼	3¼	3¼	3¼	3¼	3¼	3¼	3¼	3¼	3½	3½
Out. Diam. of Top, in	15	12½	12½	16½	19½	24	31¼	38½	45½	53½	58½	66
Length of taper, ft	4	5	6	6	6	8	8	8	10	10	10	10
Out. Diam. of Ball, in	120	360	425	550	705	1010	1425	1905	2320	2680	3500	4300
Shipping Weight, lb	285	400	605	705	925	1275	1750	2200	2700	3400	4200	5000

sectional poles

light pattern	3½	4	4½	4½	5	5½	6½	7½	8½	9½	10½	11½
Out. Diam. of Butt, in	2¾	2¾	2¾	2¾	2¾	2¾	2¾	2¾	2¾	2¾	2¾	2¾
Out. Diam. of Top, in	185	260	315	370	515	715	920	1375	1610	2000	2500	3100
Shipping Weight, lb	230	320	420	485	600	850	1325	1650	2000	2600	2900	3760

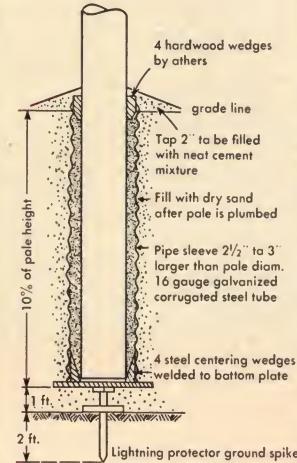
heavy pattern

Out. Diam. of Butt, in	4	4½	5	5	5½	6½	7½	8½	9½	10½	11½	12½
Out. Diam. of Top, in	2¾	2¾	2¾	2¾	2¾	2¾	2¾	2¾	2¾	2¾	2¾	2¾
Shipping Weight, lb	230	320	420	485	600	850	1325	1650	2000	2600	2900	3760

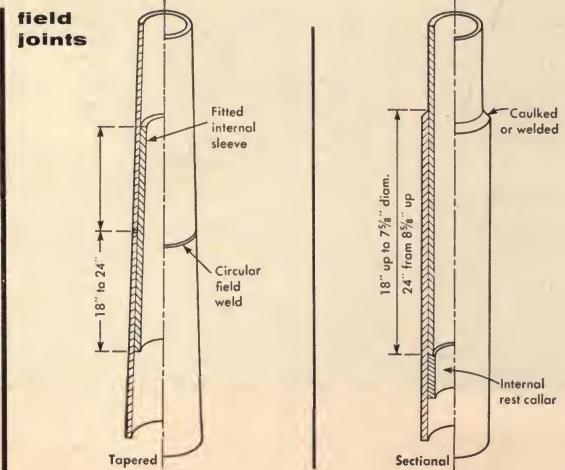
specifications

Furnish and erect Babcock-Davis (conical straight tapered or genuine venetian entasis with curved tapered or sectional) steel flagpole.....ft. exposed height.....in. at butt.....in. at top. Equipped with.....in. 23 karat gold leafed copper ball; ball bearing, non-fouling revolving (single or double, cross out one) halyard top, continuous braided cord halyard with invisible connectors; bronze swivel flag snaps and cleat all as made by Babcock-Davis Associates, Boston 27, Mass.

ground setting

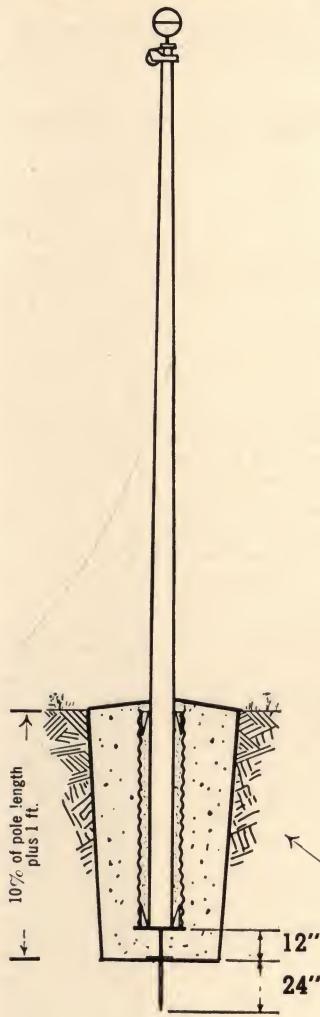


field joints



entasis tapered and conical tapered steel poles: To avoid the hard work of driving two tight fitting self-aligning sections together in the field, we can apply a pulling device at no extra charge to be removed by erector while making circumferential weld and grinding smooth.

sectional poles: When substantial savings can be made in freight pole may be shipped in two or more sections.

aluminum flagpoles**cone tapered****• ground set****advantages and features**

Babcock-Davis aluminum flagpoles are of the very finest workmanship and designed to be permanent, economical, with minimum care. The poles are made of seamless aluminum tubing specification 6063-T6, heat treated, age hard-

ened, machined to a bright satin brush finish, then waxed. No painting ever required of exposed pole. It should be allowed to weather. Portion of pole in the ground is shop painted with black asphaltum inside and outside.

specifications

Furnish and erect cone tapered (tapered portion has straight taper), ground set flagpole of seamless cold drawn 6063-T6 aluminum tubing with $\frac{3}{16}$ " wall. No visible joints. Poles to have satin brush finish and waxed. State size from list below.

Equipped with:.....14 ga. aluminum ball satin-brush finished and waxed, or 23-karat gold-leafed copper ball; B-D ball bearing aluminum, non-fouling revolving halyard top (single or double sheave, cross out one); continuous

braided cord halyards with invisible connectors; aluminum swivel flag snaps and aluminum cleats.

Furnish 16 ga. corrugated galvanized foundation tube with self-centering bottom plate and lightning protector ground spike.

If ornamental aluminum base is wanted, state pattern from list below.

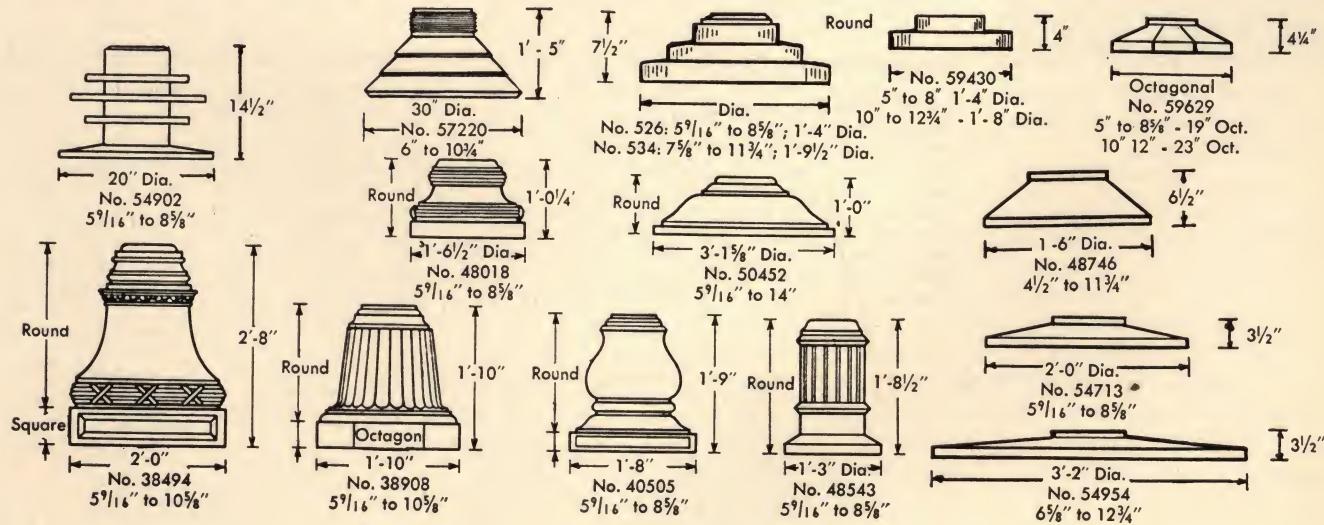
All as made by Babcock-Davis Associates, Inc., Boston 27, Mass.

dimensions (aluminum poles)

Exposed Height, ft.	9	12	17	22	27	30	33½	35	40	50	59
Total Length, ft.	12	15	20	25	30	33½	38½	44	40	55	65
Out. Diam. of Butt, in.	3½	4	4½	5	5½	6	7	8	10	12	12
Out. Diam. of Top, in.	2¾	2¾	2¾	3¼	3½	3½	3½	3½	4	5	5
Tapered Length	6'	9'	9'	9'8"	11'	13'9"	18'3"	24'9"	33'	38½'	38½'
Ball, in.	4	4	5	5	6	6	6	8	10	12	12
Pole Weight, lbs.	27	40	60	82	110	135	181	243	380	625	625
Shipping Weight, lbs.	45	60	95	135	185	230	280	375	525	800	800

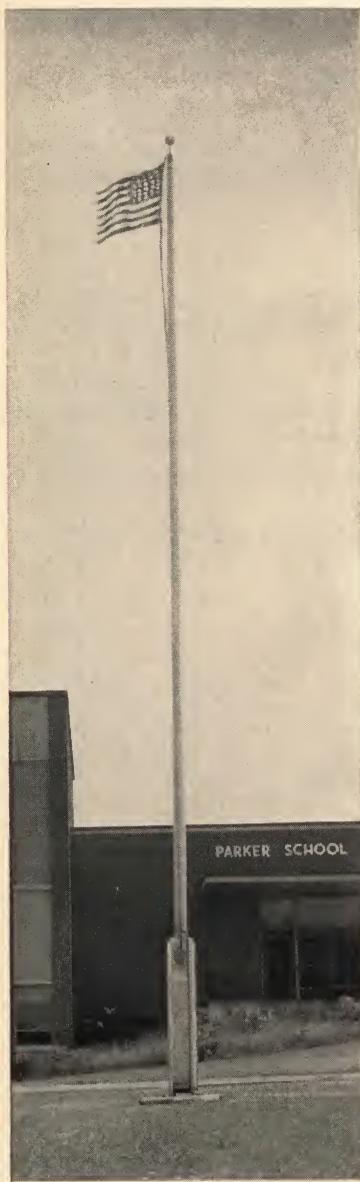
{ Depth of concrete base recommended is 10% of the pole length plus 1 ft. under normal soil conditions.

{ Diameter at top of concrete base 5 times outside butt diameter, minimum diameter 30".

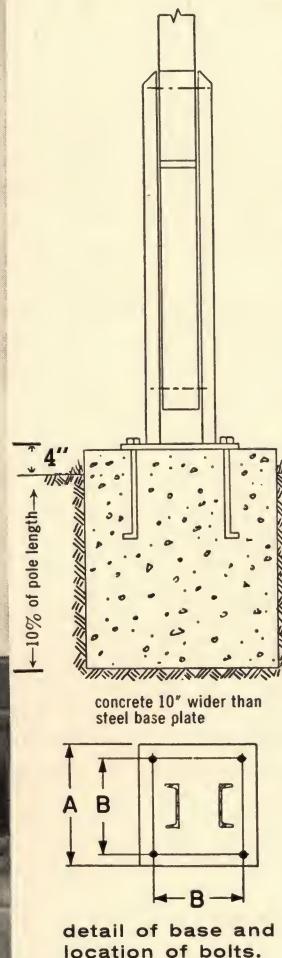
• ornamental bases—aluminum and cast iron

aluminum flagpoles

• counter balanced-ground set



B-D aluminum cone tapered 40'-0" "easy access" counterbalanced flagpole.



dimensions (aluminum poles)

Total Height	25'	30'	35'	40'	45'	50'
Out. Diam. of Butt, in.	4 1/2	5	5 1/2	6	7	8
Out. Diam. of Top, in.	2 7/8	3 1/4	3 1/2	3 1/2	3 1/2	3 1/2
Tapered	9'	9' 8"	11'	13' 9"	19' 3"	24' 9"
Ball	6"	6"	6"	8"	8"	10"
Base Plate "A," inches	18 x 1/2	18 x 1/2	18 x 1/2	20 x 1/2	22 x 1/2	24 x 1/2
Holes "B" on centers	14"	14"	14"	16"	18"	20"
Anchor Bolts	3/4 x 16	3/4 x 16	3/4 x 16	3/4 x 16	7/8 x 18	7/8 x 18
Pole Weight, lbs.	60	82	110	135	181	305
Steel Base Weight, lbs.	441	569	715	881	1263	2145

Babcock-Davis have been building "Easy Access" Tilting flagpoles for more than 25 years and have built up a reputation of "They Know How" to produce quality flagpoles and other products.

By specifying this product, you are assured of the best.

It is not practical or economical to counterbalance heavy steel poles. Use geared type shown on page 7.

advantages

light weight • easy to erect • easy to raise and lower • pole never needs painting

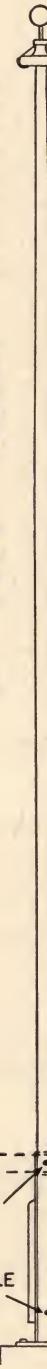
specifications

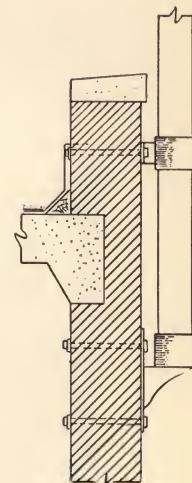
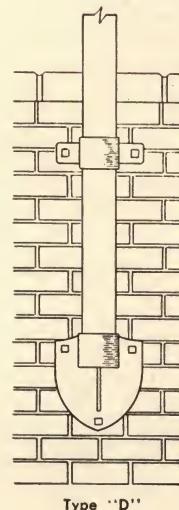
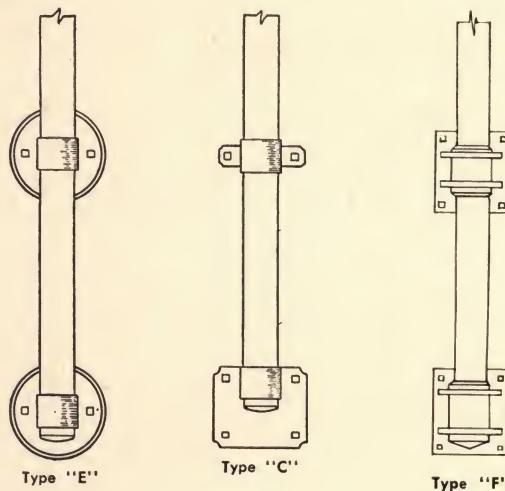
Furnish and erect Babcock-Davis "Easy Access" counterbalanced aluminum flagpole as made by the Babcock-Davis Associates, Inc. of Boston 27, Massachusetts. Pole, cone tapered (tapered portion has straight taper) seamless, cold drawn 6063-T6 aluminum tubing with $\frac{3}{16}$ " wall. No visible joints. Overall height.....feet; butt diameter,inches O.D.; top diameter,inches O.D.; with steel base, counter-weight, bottom plate and anchor bolts. State size from list below.

Equipped with:.....14 ga. aluminum ball satin-brush finished and waxed, or 23-karat gold-leaved copper ball; B-D ball bearing, aluminum, non-fouling revolving (single or double, cross out one) halyard top; continuous braided cord halyards with invisible connectors; aluminum swivel flag snaps and aluminum cleat.

If ground set, concrete foundation should be 4 inches above grade and 10 inches wider than steel base plate, and at least 10% of the length of the pole with a minimum of 4 feet below grade on firm ground to prevent frost heaving.

Aluminum pole to have satin-brush finish and waxed. Steel base painted shop coat of red lead primer and one shop coat of aluminum paint.



aluminum flagpoles**• wall mounted****specifications**

Furnish and erect cone tapered (tapered portion has straight taper), vertical wall mounted flagpole of seamless cold drawn 6063-T6 aluminum tubing with $\frac{3}{16}$ " wall. No visible joints. Poles to have satin brush finish and waxed. State size from list below.

Equipped with:.....14 ga. aluminum ball satin-brush finished and waxed, or 23-karat gold-leaved copper ball; B-D ball bearing aluminum,

non-fouling revolving (single or double, cross out one) halyard top; continuous braided cord halyards with invisible connectors; aluminum swivel flag snaps and aluminum cleats.

Specify galvanized or aluminum wall brackets Type "C," "D," "E," or "F," and anchor bolts.

All as made by Babcock-Davis Associates, Inc., Boston 27, Mass.

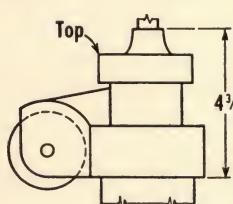
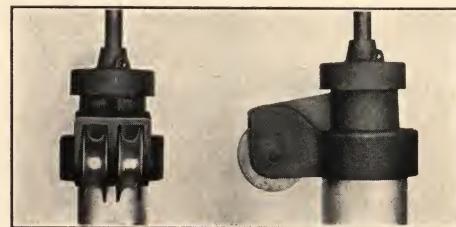
dimensions (aluminum poles)

Exposed Height, ft.	9	12	17	22	27	30	35	40
Total Length, ft.	12	15	20	25	30	33½	38½	44
Out. Diam. of Butt, in.	3½	4	4½	5	5½	6	7	8
Out. Diam. of Top, in.	2¾	2¾	2¾	3¼	3½	3½	3½	3½
Tapered Length	6'	9'	9'	9'8"	11'	13'9"	19'3"	24'9"
Ball, in.	4	4	5	5	6	6	6	8
Pole Weight, lbs.	27	40	60	82	110	135	181	243
Shipping Weight, lbs.	45	60	95	135	185	230	280	375

• halyard top — non-fouling, revolving

galvanized aluminum, or bronze top as specified

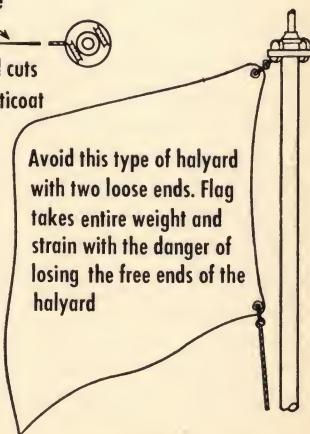
This Top does not cut or chafe the halyards. Allows flag or flags to fly without fouling. Double pulleys on one side only; thus double halyards pull together over pulleys, not across their edges. Ball-bearing construction responds to slightest shift in breeze. Invisible halyard connector eliminates free ends; takes strain off flag. Spire can take ball or special finial.



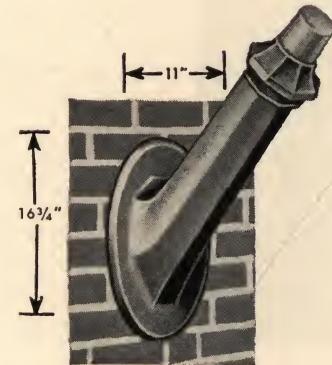
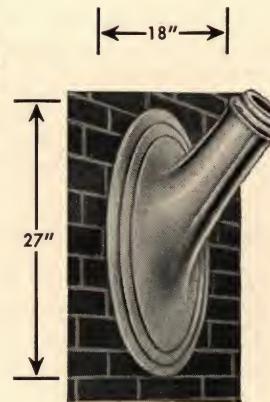
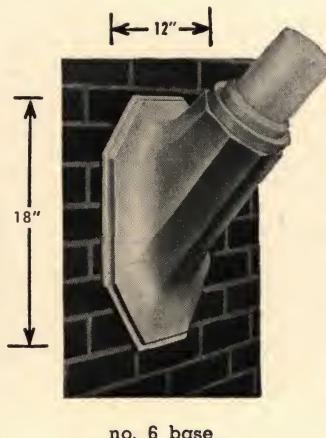
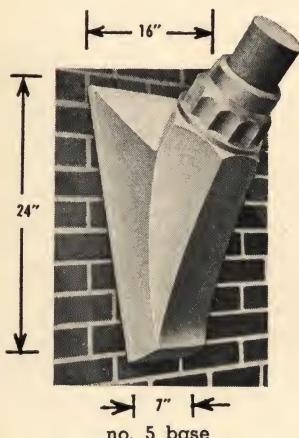
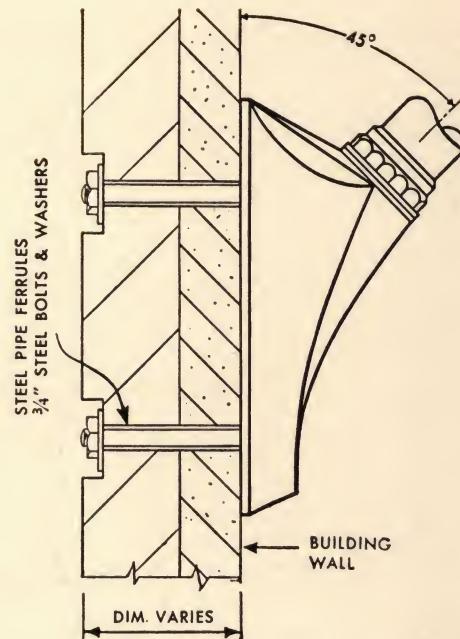
Pull of flag on center line of pole

Note how halyard cuts on pulley and petticoat of ordinary type

Avoid this type of halyard with two loose ends. Flag takes entire weight and strain with the danger of losing the free ends of the halyard



• outrigger bases — without braces



bases: Made in aluminum, bronze, stainless steel and cast iron.

flagpoles: Conical tapered seamless cold drawn aluminum tubing.

Pole supported at 45° angle with base bolted through the wall. For vertical mounted poles on the face of a building (see page 5).

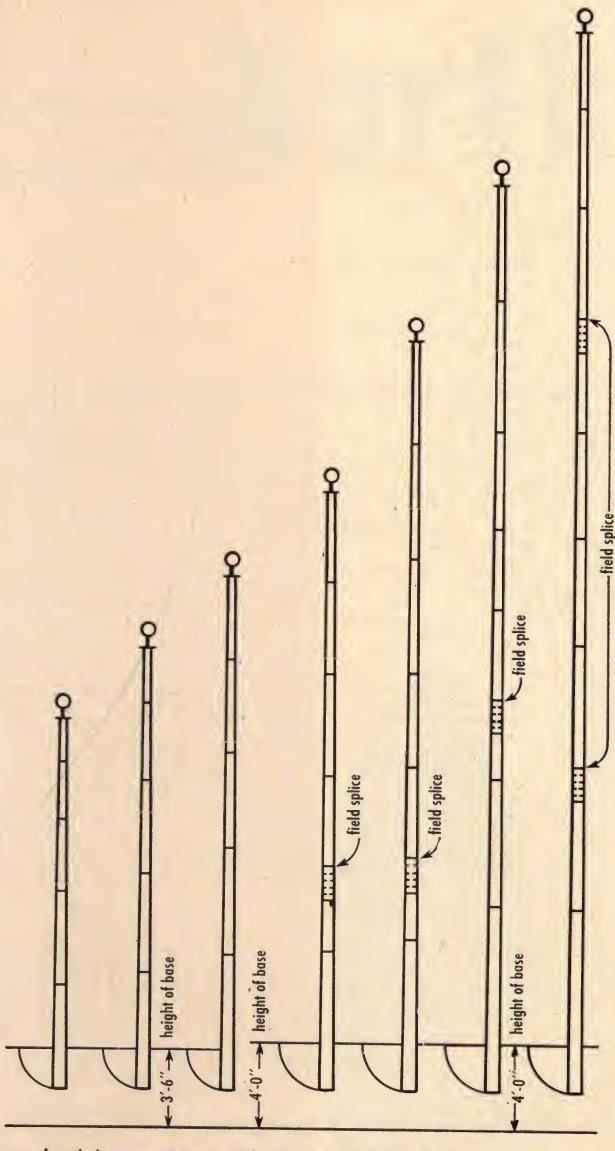
specifications

Furnish and erect Babcock-Davis Outrigger Conical Tapered 6063-T6 Aluminum Tubing, 3/16" Wall, Flagpole ft. long, butt inch O.D., top inch O.D. with type decorative base (state metal of base), for wall mounting. Pole fittings: acorn cap, swivel block, cleat, all of same metal as base. Halyards with invisible connectors, bronze swivel flag snaps, steel anchor bolts and nuts.

dimensions (aluminum poles)

Total Length, ft.	12	15"	20"	25"
Out. Diam. of Butt, in.	3 1/2	4	4 1/2	5
Out. Diam. of Top, in.	2 3/8	2 3/8	2 7/8	3 1/4
Tapered Length, ft.	6	9	9	9 8"
Ball, in.	4	4	5	5

■ For poles 20 feet and longer, bracing is recommended.



conical taper or sectional steel poles

specifications

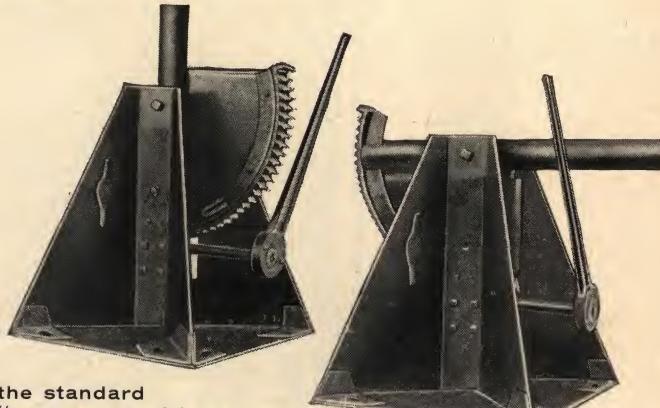
Furnish and erect Babcock-Davis "Easy Access" (Geared type, conical tapered, or sectional) Flagpole ft. high; in. at butt; in. at top (if canted, specify degree of angle). To be equipped with operating wrench; inch 23-karat gold leafed copper ball; ball bearing, non-fouling revolving (single or double; state which) halyard top; continuous braided cord halyards with invisible connector; bronze swivel flag snaps and cleat.

roof installations: Form island on roof and set anchor bolts (furnished by others) according to shop drawings furnished.

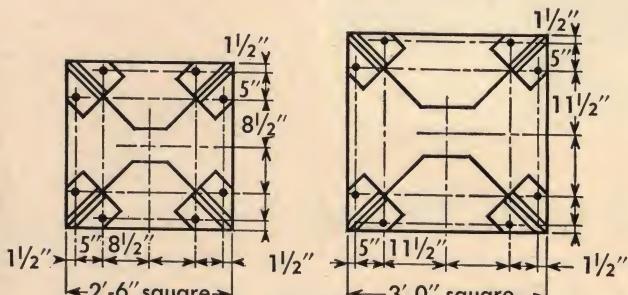
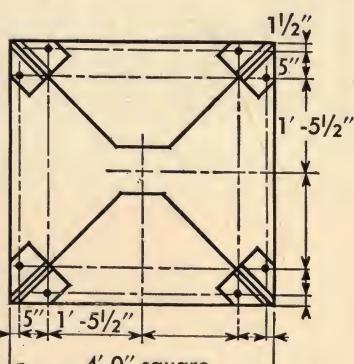
grade installations: Form island of concrete, 4'6" deep and set 8 anchor bolts, 1" diameter, 4' long (furnished by others)—same width of concrete and spacing of holes as shown for roof installation.

**dimensions & weights
of sectional steel poles**

size (& height) of base hgt. above roof grade, ft.	no. 2: 3½ ft.		no. 3: 4 ft.		no. 4: 4 ft.		
	25	30	35	40	50	60	70
Out. diam. of top, in.	2 3/8	2 3/8	2 3/8	2 7/8	2 7/8	2 7/8	2 7/8
Out. diam. of bottom, in.	4 1/2	5	5	5 5/8	6 5/8	7 5/8	8 5/8
Diam. of ball, in.	6	6	6	8	8	10	10
Weight: pole, lb.	210	305	335	650	775	1225	1725
base & quadrant, lb.	350	475	475	775	775	1250	1250
total (shipping), lb.	560	780	810	1425	1550	2475	2975
No. shipping sections	1	1	1	2	2	2	3

base constructionthe standard
"easy access" base
in raised position

in lowered position

■ bases: no scaleno. 2 base
for 25' to 35' poles
foundation plate 3/8" thickno. 3 base
for 40' to 50' poles
foundation plate 1/2" thickno. 4 base
for 60' to 70' poles
foundation plate 3/4" thick

Poles can be made of cone tapered steel or aluminum.

TYPICAL INSTALLATIONS OF Babcock-Davis "EASY ACCESS" FLAG POLES

White House Executive Mansion
 U. S. Capitol, Senate Roof
 U. S. Capitol, House Chamber Roof
 U. S. Air Force, Langley Field, Va.
 Sharp General Depot, Lathrop, Cal.
 Marine Corps Depot, Oceanside, Cal.
 Toolen High School, Mobile, Ala.
 St. Mary's Church, Mobile, Ala.
 Southern Bell Telephone, Decatur, Ala.
 City Hall, Andalonsia, Ala.
 S. H. Kress Co., Montgomery, Ala.
 Woolworth Bldg., Little Rock, Ark.
 Southwestern Irrigation, Brawley, Cal.
 Loose Wiles Biscuit Co., Oakland, Cal.
 Laguna Telephone Bldg., Laguna, Cal.
 Los Angeles Examiner Bldg., Los Angeles
 General Petroleum Bldg. (2), Los Angeles
 Appraisers Bldg. (2), San Francisco, Cal.
 F. Kern & Sons, San Francisco, Cal.
 S. H. Kress Co., Colorado Springs, Colo.
 High Standard Mfg. Co., New Haven
 State Trade School, Hartford, Conn.
 Fire Stations 5 & 6 (2), Milford, Conn.
 First National Stores, Hartford, Conn.
 Masonic Home, Wallingford, Conn.
 Borch & Stevens Bakery, Bridgeport, Conn.
 Hartford Machine Screw Co., Windsor
 Southern Bell Tel. Co., Miami, Fla.
 Register & Tribune Bldg., Des Moines
 Liberty Bldg., Des Moines, Iowa
 John Deere School, East Moline, Ill.
 Illinois Bell Telephone Bldg. (7), Ill.
 Central National Bank of Chicago
 Kankakee Dial Office Bldg. (2)
 Central Police and Court Bldg., Chicago
 R. R. Donnelley & Sons Co., Chicago, Ill.
 Commonwealth Edison Co., Stickney, Ill.
 Standard Data Service, Evansville, Ind.
 Department Store Bldg., Indianapolis
 Times Publishing Bldg., Indianapolis, Ind.
 Indiana Bell Telephone, South Bend, Ind.
 Murphy Stores, Fort Wayne, Ind.
 Iowa Methodist Hospital, Des Moines
 S. H. Kress Co., Wichita, Kan.
 Swift & Co., Kansas City, Kan.
 Louisville Baseball Grounds, Louisville
 Western Electric, New Orleans, La.
 Gus Mayer Store Bldg., New Orleans, La.
 American Bank Bldg., New Orleans, La.
 Old Post Office, Portland, Me.
 Press Herald Bldg., Portland, Me.
 W. T. Grant Co., Bangor, Me.

N. E. Tel. & Tel., Biddeford, Me.
 Hecht Co., Dept. Store, Silver Spring
 Bethlehem Steel Co., Sparrows Point, Md.
 C. & P. Telephone Bldg., Silver Spring, Md.
 U. S. Horticultural Station, Beltsville, Md.
 Boston Edison Co. (3), Boston, Mass.
 Cadillac Building, Boston, Mass.
 South Boston Housing Project, Boston, Mass.
 New England Tel. & Tel. (4), Mass.
 John Hancock Life Ins. Bldg., Boston, Mass.
 Brookline Savings Bank, Brookline, Mass.
 Woolworth Store, Cambridge, Mass.
 A. G. Spalding & Bros., Chicopee, Mass.
 Greenfield Tap & Die Corp., Greenfield, Mass.
 General Electric, Lynn, Mass.
 Bay State Merchants Nat'l Bank, Lawrence
 Grade School, Norton, Mass.
 Gun Directors Building, G. E., Pittsfield
 General Electric Co., Pittsfield, Mass.
 St. John Evangelist Church (2) Winthrop
 General Motors, Detroit, Mich.
 Mumford High School, Detroit, Mich.
 C. F. Haglin & Sons, Minneapolis, Minn.
 Famous Bars Co. Store (2), Clayton, Mo.
 K.F.E.Q. Bldg., St. Joseph, Mo.
 Brotherhood Building, Kansas City, Mo.
 Seacoast Realty, Wilmington, N. C.
 Christian Science Home, Concord, N. H.
 Town of Jaffrey, N. H.
 James Webb Store, Grand Island, Neb.
 Asbury Park Theatre, Asbury Park, N. J.
 First National Bank, Plainfield, N. J.
 Union Freight Terminal No. 3 (4), Newark
 Fourth Federal Savings Bank, Newark, N. Y.
 South Brooklyn Savings Bank, Brooklyn, N. Y.
 University of Buffalo Law School, Buffalo
 New York Public Library (3 branches)
 Irving Trust Bldg., New York, N. Y.
 Brooklyn Savings Bank, Buffalo, N. Y.
 Fairchild Press, New York City
 G. E. Research Laboratory, Schenectady
 General Electric Co., Schenectady, N. Y.
 W. T. Grant, Syracuse, N. Y.
 Electronics Park (2), Syracuse, N. Y.
 Women's Relief Corps Home, Oxford, N. Y.
 Charles Schad Inc., Brooklyn, N. Y.
 Ohio Bell Tel. Co. (2), Ohio
 Thompson Aircraft Products Co., Cleveland
 Mt. Carmel Hospital, Columbus, Ohio
 Ohio State Journal, Columbus, Ohio
 Akron Baptist Temple (2), Akron, Ohio
 East Ohio Gas Co., Cleveland, Ohio

H. & S. Pogue Service Building, Cincinnati, Ohio
 Mercy Hospital, Hamilton, Ohio
 Fred Jones Motor Co., Tulsa, Okla.
 South Side Jr. High, Allentown, Pa.
 Municipal Building, Coraopolis, Pa.
 State College (V.F.W.), State College, Pa.
 Russells Fifth Avenue, Inc., Philadelphia, Pa.
 Penn Threshermen Office Building, Harrisburg, Pa.
 Atlantic Refining Co., Philadelphia, Pa.
 General Motors Corp., Pittsburgh, Pa.
 United Motors Warehouse, Pittsburgh, Pa.
 Williamsport Municipal Airport, Williamsport, Pa.
 C. H. Masland & Sons, Carlisle, Pa.
 R. I. Hospital Trust Co., Woonsocket, R. I.
 Savings Bank of Newport, Newport, R. I.
 S. H. Kress Co., Spartanburg, S. C.
 Elementary School, Charleston, S. C.
 Tennessee Copper Co. Building, Copperhill, Tenn.
 Kimberly-Clark Corp., Memphis, Tenn.
 Employers Casualty Co., Dallas, Tex.
 Lichtenstein Store, Corpus Christi, Tex.
 Beaumont Telephone Building, Beaumont, Tex.
 Montgomery Ward Co., Fort Worth, Tex.
 Sweeney Ind. School, Sweeney, Tex.
 San Angelo College, San Angelo, Tex.
 J. W. Bateson, Midland, Tex.
 Niesner Store, San Antonio, Tex.
 Brooks Transfer Co., Richmond, Va.
 Elementary School, Norfolk, Va.
 Appalachian Electric Power Co., Roanoke, Va.
 Doyle & Russell (5), Hallwood, Va.
 New N. & W. Office Building, Bluefield, W. Va.
 C. & P. Telephone Co. (2), W. Va.
 Carbide & Carbon Chemical Co., So. Charleston
 Engineering Bldg. (2), Madison, Wis.
 Schlitz Brewery, Milwaukee, Wis.
 Skobis Co. (2), Milwaukee, Wis.
 Plankinton Packing Co., Milwaukee, Wis.
 County Hospital, Winnebago, Wis.
 Whatcom County Courthouse, Bellingham, Wash.
 Federal Reserve Bank, Seattle, Wash.
 Selah Hospital, Selah, Wash.
 Bunker Hill High School, Washington, D. C.
 Calvin Coolidge High School, Washington, D. C.
 Central Public Library, Washington, D. C.
 National Guard Armory, Washington, D. C.
 U. S. Naval Air Station, Anacostia, D. C.
 Telephone Buildings (5), Washington, D. C.
 Post Intelligence Building, Washington, D. C.
 U. S. Air Station, San Juan, Puerto Rico
 American Embassy, Quito, Ecuador
 Caracas Stadium, Venezuela

**65-foot cone tapered
flagpole
Harvard University**



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